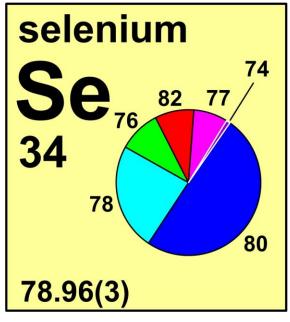
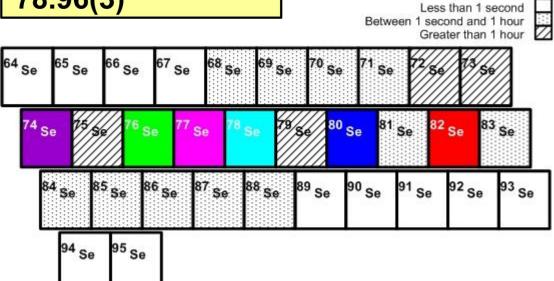
selenium



Stable	Atomic mass*	Mole
isotope		fraction
⁷⁴ Se	73.922 4764	0.0089
⁷⁶ Se	75.919 2136	0.0937
⁷⁷ Se	76.919 914	0.0763
⁷⁸ Se	77.917 3091	0.2377
⁸⁰ Se ⁸² Se	79.916 5213	0.4961
⁸² Se	81.916 6994	0.0873

^{*} Atomic mass given in unified atomic mass units, u.

Half-life of redioactive isotope



Important applications of stable and/or radioactive isotopes

Isotopes in industry

1) 75Se is used for ×-ray radiography of welds.



Figure 1: PARC System (Portable Apparatus for Radiation Control) has a 15 curie ⁷⁵Se source and a controlled area as low as 2 m in Radius.

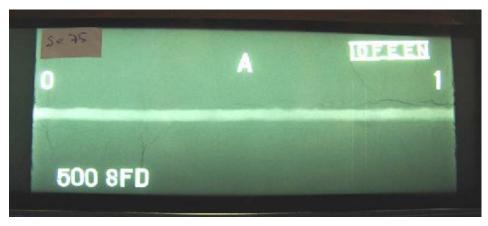


Figure 2: Film of radiographic inspection using ⁷⁵ Se.